H. BAUTE.

TAMPING ATTACHMENT FOR CEMENT BLOCK MOLDING MACHINES.

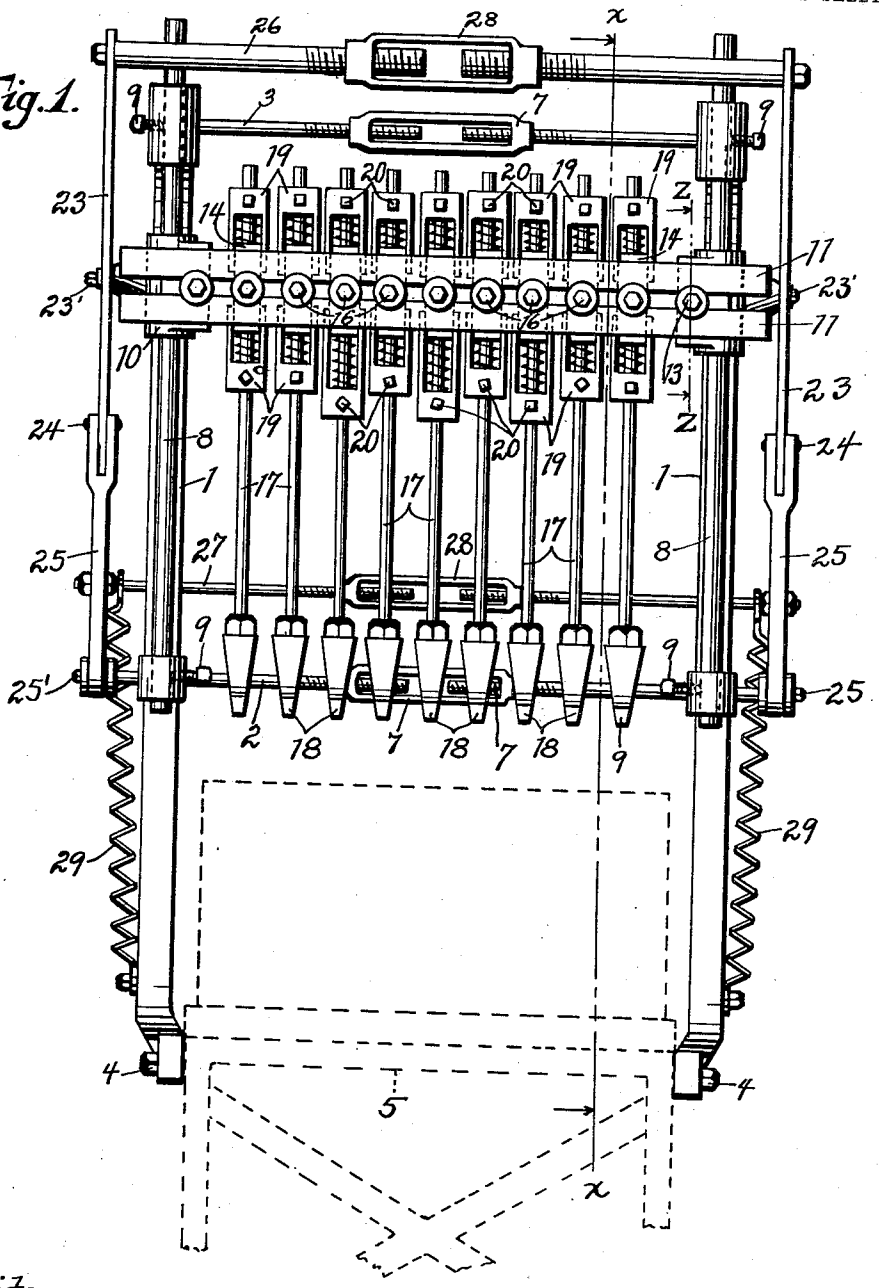
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1,101,986.

Patented June 30, 1914.

2 SHEETS—SHEET 1.

Fig. 1.



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2 SHEETS—SHEET 2.

Fig. 2

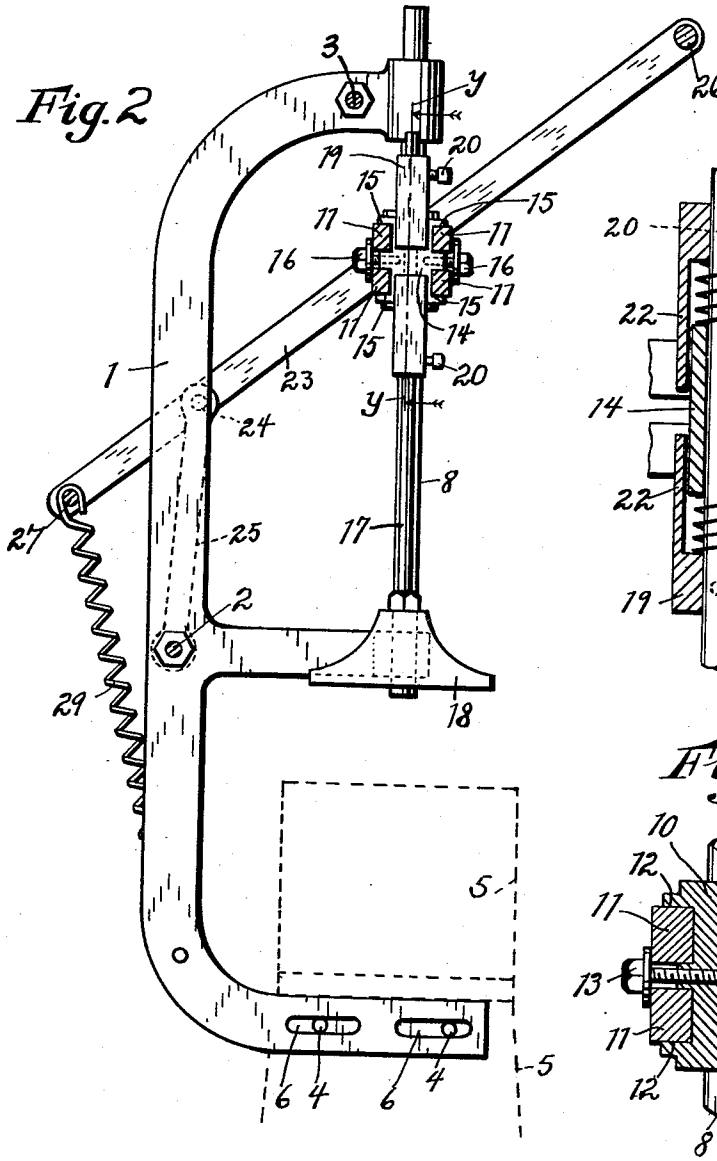


Fig. 3.

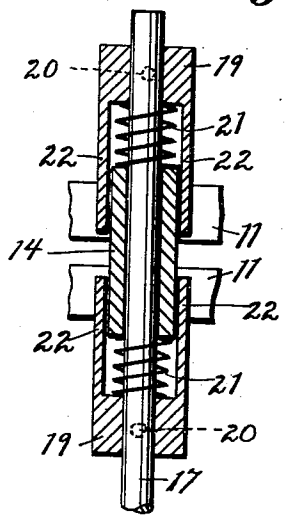
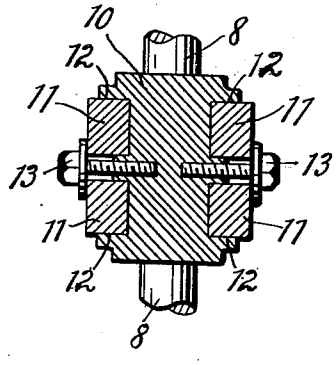


Fig. 4.



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UNITED STATES PATENT OFFICE.

HENRY BAUTE, OF BENTON HARBOR, MICHIGAN.

TAMPING ATTACHMENT FOR CEMENT-BLOCK-MOLDING MACHINES.

1,101,986. Specification of Letters Patent. Patented June 30, 1914.

Application filed November 25, 1912. Serial No. 733,393.

To all whom it may concern:

Be it known that I, HENRY BAUTE, a citizen of the United States, and a resident of the city of Benton Harbor, county of Berrien, and State of Michigan, have invented certain new and useful Improvements in Tamping Attachments for Cement-Block-Molding Machines, of which the following is a specification.

My invention relates to improvements in tamping attachments for cement block molding machines and has for its object the provision of an attachment of this character which will be durable and economical in construction and which will be efficient in use.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which—

Figure 1 is a front elevation of a tamping attachment embodying my invention, the same being shown applied to a cement block molding machine which is shown in dotted lines, Fig. 2 is a vertical section taken on line *x*—*x* of Fig. 1, Fig. 3 is an enlarged detail section taken on line *y*—*y* of Fig. 2, and Fig. 4 is an enlarged detail section taken on line *z*—*z* of Fig. 1.

The preferred form of construction as illustrated in the drawings comprises a frame consisting of two substantially U-shaped members 1 which are spaced apart and connected by means of rods 2 and 3. The lower ends of the frame members 1 are adapted for connection with the frame or body 5 of a conventional cement block molding machine by means of securing bolts 4, said bolts passing through elongated slots 6 provided in the frame members 1 which slots permit of forward and rearward adjustment of the attachment relative to the molding machine in order to properly center the tampers over said molding machine as will be readily understood.

In order to adapt the attachment for use in conjunction with molding machines of various widths, turn buckles 7 are interposed in the connecting rods 2 and 3 which evidently afford longitudinal adjustment of said rods and hence lateral adjustment of the frame.

Arranged at the front sides of the frame members 1 are vertically disposed guide bars 8 the respective ends of which are securely fastened in said frame members 1 by means of set screws 9. Slidably mounted upon and extending between the guide bars 8 is a cross head comprising blocks or end members 10 which slidably engage the bars 8, and two pairs of connecting bars 11 the respective ends of which engage recesses 12 provided for the reception thereof in the opposite sides of the end members 10, as clearly shown in Fig. 4. The bars 11 are releasably secured to the end members 10 by means of bolts 13, the arrangement being such that said end members will be adapted for lateral or longitudinal adjustment relative to said bars upon retraction of bolts 13 in order to correspond with the lateral adjustment of the frame such as is secured through the employment of turn buckle 7 as before described. The snug fitting of the ends of bars 11 in recesses 12 however insure a rigid connection between the end members 10 which obviates the possibility of binding of said members upon the guide members 8.

Arranged between the pairs of spaced bars 11, as clearly shown in the several views, are members 14 adapted when in use to serve in the capacity of tamper carriers. The members 14 are provided in their opposite sides with recesses 15 for engagement by the bars 11, such construction evidently permitting of relative lateral adjustment of said members 14 between said bars but preventing relative vertical movement thereof. Said members are releasably secured in positions of lateral adjustment by means of bolts 16 as will be readily understood. Each of the members 14 carries a vertically disposed stem 17 which passes centrally through the same as clearly shown in Fig. 3, said stems carrying the tampers 18 at their lower extremities. Said stems are loosely mounted in the members 14, the same being yieldingly held in positions of vertical adjustment by means of stops 19 adjustably secured upon said stems by set screws 20, and helical compression springs 21 which are interposed between said stops and the opposite sides of the members 14. Provided upon opposite sides of the stops 19 are projecting ears 22 which slidably engage against opposite sides of the carrier members 14 to serve as a means of preventing relative rotation of the stems 17 and hence the tampers car-

ried thereby. With the arrangement disclosed it will be seen that each of the tamper stems will be yieldingly held in operative position by a pair of counter-acting springs which, when the device is in use, serve as cushions to absorb any shocks and jars which are incidental to the tamping operation. Further, with the arrangement disclosed it will be seen that lateral adjustment of the tampers is permitted by simply retracting bolts or screws 16 in order to adapt the same to better serve the purpose for which the same are designed. Also by retraction of set screws 20, the tampers may be vertically adjusted as well as rotatably or angularly adjusted.

Manual operation of the cross head in order to secure vertical reciprocation of the tampers is secured through the medium of a manually operable oscillatory lever consisting of side members 23 which are fulcrumed at 24 to links 25 the lower ends of which are pivoted at 25′ to the terminals of frame rods 2. Said side members 23 are pivotally connected at 23′ with the end members 10 of the cross head. The forward and rearward ends of the members 23 are connected respectively by means of cross bars 26 and 27, turn buckles 28 being interposed between the members 26 and 27 so as to permit of adjustment of said bars to correspond with lateral adjustment of the frame as is permitted through the employment of turn buckles 7 as before described. Helical compression springs 29 coöperate with said operating lever to normally hold the cross head and hence the tampers 18 at their upper terminals of movement, downward movement of the tampers being effected by grasping the bar or handle forming piece 26, as will be readily understood.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

1. In a device of the class described, the combination of a frame, guide members provided in said frame; a cross head slidably mounted upon said guide members, said cross head comprising oppositely disposed spaced bars; tamper carriers arranged between said bars; flanges on said carriers engaging against the longitudinal edges of said bars for locking said carriers against vertical movement relative to said bars; said carriers being capable of lateral adjustment between said bars; means for releasably locking said carriers in positions of lateral adjustment between said bars; tampers carried by said carriers; and means for reciprocating said cross head, substantially as described.

2. In a device of the class described, the combination of a frame; vertically disposed guide members provided in said frame; a cross head slidably mounted upon said guide members, said cross head comprising end members slidably mounted upon said guide members; oppositely disposed spaced parallel bars extending between and secured to said end members; tamper carriers arranged between said bars, held against vertical movement therebetween but adapted for lateral adjustment relative to said bars; means for releasably locking said carriers in positions of lateral adjustment between said bars; tampers carried by said carriers; tampers having stems loosely mounted in said carriers; stops on said stems at opposite sides of said carriers; springs interposed between said stops and carriers for yieldingly holding said stems in position in said carriers; and means for vertically moving said cross head, substantially as described.

3. In a device of the class described, the combination of a frame; vertically disposed guide members provided in said frame; a cross head slidably mounted upon said guide members, said cross head comprising end members slidably mounted upon said guide members; oppositely disposed spaced parallel bars extending between and secured to said end members; tamper carriers arranged between said bars, held against vertical movement therebetween but adapted for lateral adjustment relative to said bars; means for releasably locking said carriers in positions of lateral adjustment between said bars; tampers carried by said carriers; said tampers having stems loosely mounted in said carriers; stops on said stems at opposite sides of said carriers, means on said stops for preventing relative rotary movement of said stems; resilient means interposed between said stops and said carriers for yieldingly holding said stems in position in said carriers; and means for vertically moving said cross head, substantially as described.

4. In a device of the kind described, the combination of a frame; vertical guides in said frame; a cross head comprising a block slidably mounted on each guide and spaced bars connecting said blocks; perforated members disposed between said spaced bars and each member having recesses in opposite sides thereof, said recesses engaging said bars; a tamper shank slidably mounted in each perforated member; a stop at each end of each of said members on the respective tamper shanks; and resilient means be-

tween said members and said stops, substantially as described.

5. In a device of the kind described, the combination of a frame; vertical guides in said frame; a cross head comprising a block slidably mounted on each guide and spaced bars connecting said blocks; perforated members disposed between said spaced bars and each member having recesses in opposite sides thereof, said recesses engaging said bars, a tamper shank slidably mounted in each perforated member; a stop at each end of each of said members on the respective tamper shanks; compression springs between said members and said stops; and ears on said stops extending over said compression springs and extending between said spaced bars preventing rotation of said tamper shanks, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY BAUTE.

Witnesses:
A. H. PETERS,
E. W. CLAWSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."